

**CLAIMS**

1. A method for indicating the specific use of a packet-switched communication connection between a mobile station and a fixed packet-switched data transmission network, where the activation of a new packet-switched communication connection involves the step of transmitting an activation request message with a service type indicator field for which a set of service type indicator values have been defined, the method comprising the step of:

- transmitting within the activation request message an indicator value indicating the specific use, in more detail than the service type indicator values, of the packet-switched communication connection the activation of which is requested with the activation request message.

2. A method according to claim 1, comprising the step of:

- transmitting within the service type indicator field an indicator that partly consists of a service type indicator value and partly consists of a second indicator value indicating the specific use of the packet-switched communication connection the activation of which is requested with the activation request message.

3. A method according to claim 2, wherein the activation request message is an Activate PDP Context Request message and the service type indicator field is a PDP Type field.

4. A method according to claim 2, wherein the activation request message is a Create PDP Context Request message and the service type indicator field is a PDP Type field.

5. A method according to claim 2, wherein the activation request message is a PDU Notification Request message and the service type indicator field is a PDP Type field.

6. A method according to claim 2, wherein the activation request message is a Request PDP Context Activation order and the service type indicator field is a PDP Type field.

7. A method according to claim 1, comprising the step of:

- transmitting within the activation request message a configuration options field and within said configuration options field said value indicating the specific use, in more detail than the service type indicator values, of the packet-switched

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8. A method according to claim 1, additionally comprising the step of:

9. A method according to claim 8, wherein said step of storing said second indicator value in association with a set of information used to charge a subscriber is accomplished in a Gateway GPRS Supporting Node of a GPRS network.

11. An arrangement for providing packet-switched communication connections between a mobile station and a fixed packet-switched data transmission network and for indicating the specific use of a packet-switched communication connection, comprising means for transmitting an activation request message as an indicator for the need of activating a new packet-switched communication connection for which a set of service type indicator values have been defined, the arrangement comprising:

12. An arrangement according to claim 11, comprising means for transmitting, within a service type indicator field of the activation request message, an indicator that partly consists of a service type indicator value and partly consists of a second indicator value indicating the specific use of the packet-switched communication connection the activation of which is requested with the activation request message.

13. An arrangement according to claim 11, comprising means for transmitting, within the activation request message a configuration options field and within said

configuration options field said value indicating the specific use, in more detail than the service type indicator values, of the packet-switched communication connection the activation of which is requested with the activation request message.

- 5 14. An arrangement according to claim 11, comprising a Serving GPRS Support Node and a Gateway GPRS Support Node and in at least one of them means for storing said second indicator value indicating the specific use of the packet-switched communication connection in association with a set of information used to charge a subscriber of the fixed packet-switched data transmission network for the use of
- 10 services provided through the fixed packet-switched data transmission network.

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